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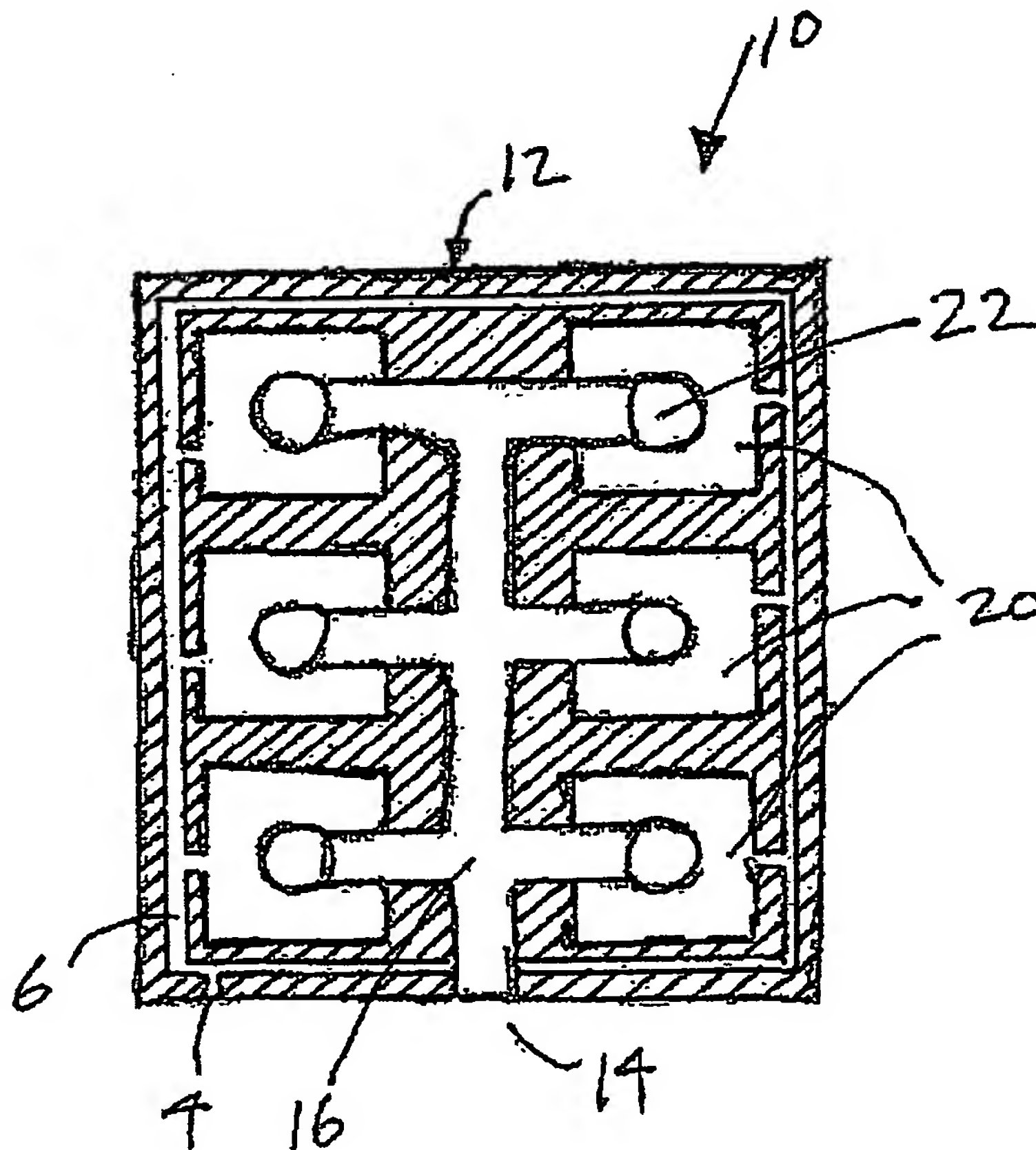
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[Continued on next page]

(54) Title: CONFIGURABLE MICROFLUIDIC SUBSTRATE ASSEMBLY



(57) Abstract: A microfluidic substrate assembly (10) includes a substrate body (12) having at least one fluid inlet port (14). At least one microscale fluid flow channel (16) in the substrate is in fluid communication with the inlet port for transport of a fluid to be tested. The substrate body also has a plurality of sockets (20), with each of one or more sockets configured to receive an operative component (21). At least one socket is in communication with the microscale fluid flow channel.



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# INTERNATIONAL SEARCH REPORT

International application No.

PCT/US03/38707

## A. CLASSIFICATION OF SUBJECT MATTER

IPC(7) : G01N 27/26

US CL : 204/409; 422/100

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)

U.S. : 204/409,600,601,450,451; 422/100,99,68.1,70,129

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practicable, search terms used)

Please See Continuation Sheet

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X, E --- Y, E	US 6,699,384 B1 (LIN et al.) 02 March 2004 (02.05.2004), abstract; Figures 1, 2, and 5; and column 5, lines 20-34.	1-5,7-10,12,13,31-34,37,38,40,41,43,48,49 ----- 6,14,15,16,21,51-53,55-57,59
X --- Y	US 5,580,523 A (BARD) 03 December 1996 (03.12.1996), abstract and Figures 1a-1d and 2-4.	1,2,4-9,12,13,31-34,37,43,44,48,49,61 ----- 3,14,35,36,45,51-53,55-57,59



Further documents are listed in the continuation of Box C.



See patent family annex.

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"O" document referring to an oral disclosure, use, exhibition or other means	"&" document member of the same patent family
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## C. (Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X,P — Y,P	US 6,632,400 B1 (BRENNEN et al.) 14 October 2003 (14.10.2003), abstract and Figures 1-5.	1,2,4,5,7-10,12,31-33,37,48,61 ----- 3,6,13-16,21,34-36,38,40,41,51-53,55-57,59
X,P — Y,P	US 2002/0124896 A1 (O'CONNOR et al.) 12 September 2002 (12.09.2002), abstract and Figures 3A, 3B, 5A-5C, 7A, 7B, and 8.	1,2,4-9,12,31-33,37,48,61 ----- 3,13,14,34-36,51-53,55-57,59
X,P — Y,P	US 2003/0012697 A1 (HAHN et al.) 16 January 2003 (16.01.2003), abstract and Figures 2 and 4-6.	1,2,4-9,12,31-33,37,48,61 ----- 3,13,14,34-36,38-41,45,46,49,51-53,55-57,59
Y	Derwent abstract for WO 9957310 A2 (BERNAUER) 11 November 1999 (11.11.1999).	55-57

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**Continuation of B. FIELDS SEARCHED Item 3:**

**EAST**

search terms: microfluid\$, removable, modul\$, plug\$